

## UNITED STATES EPARTMENT OF COMMERCE **Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		
9/517,354	03/02/00	YAMAZAKI		s	0797	77/015003		
MMC2/1219		MMC2/1219	¬	EXAMINER				
COTT C HARRIS				PARKER K				
FISH & RICHARDSON PC				ART UNIT F		PAPER NUMBER		
350 LA JOLL AN DIEGO CA		ORIVE SUITE 500		2871 <b>DATE MA</b>				
					12/	19/00		

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Office Action Summary

Application No. 09/517,354

Applicant(s)

Yamazaki et al

Examiner

Kenneth Parker

Group Art Unit 2871



Responsive to communication(s) filed on Sep 19, 20	000					
☐ This action is <b>FINAL</b> .						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
is longer from the mailing date of this communication.	n is set to expire3 month(s), or thirty days, whichever Failure to respond within the period for response will cause the Extensions of time may be obtained under the provisions of					
Disposition of Claims	t to a second to the conditional					
	is/are pending in the application.					
	is/are withdrawn from consideration.					
Claim(s)	is/are allowed.					
	is/are rejected.					
	is/are objected to.					
Claims	are subject to restriction or election requirement.					
Application Papers  See the attached Notice of Draftsperson's Pater The drawing(s) filed on	are objected to by the Examiner.  is approved disapproved.  aminer.  In priority under 35 U.S.C. § 119(a)-(d).  Copies of the priority documents have been  Serial Number) 08/611,336  In from the International Bureau (PCT Rule 17.2(a)).					
Attachment(s)  Notice of References Cited, PTO-892  Information Disclosure Statement(s), PTO-1448  Interview Summary, PTO-413  Notice of Draftsperson's Patent Drawing Review  Notice of Informal Patent Application, PTO-152	w, PTO-948					
SFF OFFICE AC	CTION ON THE FOLLOWING PAGES					

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### DETAILED ACTION

#### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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2. Claims 1-2, 4-6, 9-12, 14-16, 18-19, 21-23, 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matawari et al, U.S. Patent #5,200,847

Matawari discloses a liquid crystal device in which glass substrates with polysilicon driver are mounted on a substrate of liquid crystal. Both active and passive are included. Lacking are the details of how the polycrystalline silicon and the devices were formed on the glass substrate, the dividing of the substrates. The details of the independent claims of forming the semiconductor layer, crystallizing the film, patterning and forming the TFTs, were the conventionally employed methods at the time, and would have been obvious for that reason. The dividing of the substrates was a conventional practice for both driving circuits and LCD displays, in that devices were made in groups and cut for the benefit of keeping manufacturing cost down, and would have been obvious for those reasons. The other details such as the layer thickness (claims 11, 14, 18, 23), the use of nickel in the recrystallization (claims 12-15), the silicon nitride passivation film (claims 16-25), and the presence of hydrogen were all of the well known techniques required for good device characteristics, and obvious for those reasons.

3. Claims 1-2, 4-6, 8-19, 21-23, 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vu et al, U.S. Patent #6,143,582.

Vu discloses a liquid crystal device in which glass substrates with polysilicon driver are mounted on a substrate of liquid crystal. The removal of the substrate is included. Lacking are the details of how the polycrystalline silicon and the devices were formed on the glass substrate,

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the dividing of the substrates. These claimed of the independent claims of forming the semiconductor layer, crystallizing the film, patterning and forming the TFTs were the conventionally employed methods at the time, and would have been obvious for that reason. The dividing of the substrates was a conventional practice for both driving circuits and LCD displays, in that devices were made in groups and cut for the benefit of keeping manufacturing cost down, and would have been obvious for those reasons. The other details such as the layer thickness (claims 11, 14, 18, 23), the use of nickel in the recrystallization (claims 12-15), the silicon nitride passivation film (claims 16-25), and the presence of hydrogen were all of the well known techniques required for good device characteristics, and obvious for those reasons.

## Response to Restriction

Applicant's election without traverse in paper 7 is acknowledged.

# Information Disclosure Statement

The IDS of paper #4 has had the US references considered thus far because the file was not yet available to the examiner. When the file is available, if the references are in the file as indicated by applicant, they will then be considered.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Parker whose telephone number is (703) 305-6202. The fax phone number for this Group is (703) 308-7722. Any inquiry of a general nature or relating to the status of this application or preceding should be directed to the Group receptionist whose telephone

number is (703) 308-0956.

**December 18, 2000** 

PRIMARY PATENT EXAMINER **GAU 2871**